

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Original) A system for transmitting a communication burst from a first communicating unit to a second communicating unit; the system comprising:

at said first communicating unit:

a cyclic redundancy check (CRC) generator for receiving data and generating a CRC;

a first combiner for combining said CRC with an identification of the second communicating unit to generate a mask; and

a transmitter for transmitting the burst comprising said mask and said data; and

at said second communicating unit:

a memory for storing the identification of the second communicating unit;

a receiver for receiving said communication burst including said mask and said data;

a second combiner for combining said mask with said stored identification to recover the CRC; and

means for determining whether said recovered CRC is valid.

2. (Original) The system of claim 1, wherein said first and second combiners are modulo-2 adders.

3. (Original) A system for transmitting a communication burst from a first communicating unit to at least a second communicating unit; the second communicating unit being associated with an identification number; the system comprising:

at said first communicating unit:

a cyclic redundancy check (CRC) generator for receiving data and generating a CRC;

a combiner for combining said CRC with the identification number to generate a mask; and

a transmitter for transmitting a communication burst comprising said mask and said data; and

at said second communicating unit:

a memory for storing said identification number;

a receiver for receiving said communication burst including said mask and said data;

a combiner for combining said mask with said stored identification number to recover the CRC;

means for determining whether said recovered CRC is valid.

4. (Original) The system of claim 3, further including at least a third communication unit, whereby said third communication unit is also associated with said identification number.

5. (Original) The system of claim 3, further including a plurality of communication units, wherein only a portion of said plurality of communication units is associated with said identification number.

6. (Original) A system for transmitting a communication burst from a first communicating unit to a second communicating unit; said second communicating unit being associated with an identified number; the system comprising:

at said first communicating unit:

a cyclic redundancy check (CRC) generator for receiving data and generating a CRC, the CRC generator being initialized with said identification number; and

a transmitter for transmitting a communication burst comprising said CRC and said data; and

at said second communicating unit:

a receiver for receiving said communication burst including said CRC and said data; and

means for determining whether said recovered CRC is valid.

7. (Original) The system of claim 6, further including a plurality of communicating units, wherein only a portion of said plurality of communicating units is associated with said identification number.

8. (Original) A system for transmitting a communication burst from a first communicating unit to a second communicating unit; the second unit being associated with an identification; the system comprising:

at said first communicating unit:

a combiner for receiving data and combining the data with an identification field including said identification to generate a mask;

a cyclic redundancy check (CRC) generator for receiving the mask and generating a CRC; and

a transmitter for transmitting a communication burst comprising said CRC and said data; and

at said second communicating unit:

a receiver for receiving said communication burst including said CRC and said data; and

means for determining whether said recovered CRC is valid.

9. (Original) The system of claim 8, wherein said data comprises a data block and wherein said identification field includes both said identification and a plurality of additional bits such that the length of the identification field is the same as the length of the data block.

10. (Original) The system of claim 9, wherein at least a portion of said additional bits includes said identification.

11. (Original) A method for transmitting a data burst from a first unit to a second unit comprising:

at said first unit:

receiving data for transmission;

generating a cyclic redundancy check (CRC) based upon said data;

combining the CRC with an identification of the second unit to generate a mask;

appending the mask onto the data to form a data burst; and

transmitting the data burst; and

at said second unit:

receiving said data burst;

retrieving the identification of the second unit from memory; and

combining the retrieved identification with said mask to generate said CRC; and

determining whether said CRC is valid.

12. - 26. (Canceled)